

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Please amend the paragraph on page 12, lines 24-30:

B2
For example, synthesis of the first cDNA strand may be carried out in the presence of primers having appropriate restriction sites in order to allow a subsequent cloning in the proper orientation with respect to the expression vector promoter. As restriction sites, any known restriction site may be used. As a primer, for instance the following primer, 50 nucleotides long may be used: (SEQ ID NO: 181)

Please amend the paragraph bridging pages 12 and 13:

B3
After two-strand synthesis, the cohesive ends of the double stranded cDNA are filled (blunt end) and the cDNA ends are then ligated using a suitable DNA adaptor sequence. The DNA adaptor sequence should contain a restriction site which should be different from the restriction site used in the primer for the synthesis of the first cDNA strand. The DNA adaptor may comprise for example complementary 9- or 13-mer oligonucleotides, whose ends represent the cohesive end of a restriction site. These ends may be for example a EcoRI-site:

B3
cont 5' XXXXXGGCACGAG 3' (SEQ ID NO: 182)
3' XCCGTGCTC 5'

Please amend the paragraphs on page 24, lines 3-32:

pKS+ΔNotI is cleaved with PstI and BamHI and the DNA oligonucleotide, synthesized from the pK3/pK4 primer pair described below, is ligated in the opened plasmid. The pKS+neu plasmid thus prepared contains between PstI and BamHI restriction sites, the following novel restriction sites NotI, StuI, SfiI and NcoI (i.e. PstI-NotI-StuI-SfiI-NcoI-BamHI)

5'-GCGGCCGCAAGGCCTCCATGGCCG-3' PK3 (SEQ ID NO: 183)

B4 5'-GATCCGGCCATGGAGGCCTTGCGGCCGCTGCA-3' PK4 (SEQ ID NO:
184)

The URA3 gene of *S.cerevisiae* is amplified via PCR, by use of the primer-pair PK9 and PK10, described below, and an Ycplac33 vector DNA (Gietz, R. D. and Sugino, A. (1988) Gene 74: 527-534) as matrix. The amplified DNA is cleaved with BamHI and NotI and subsequently inserted in pKS+neu which has been cleaved by BamHI and NotI. The plasmid thus obtained is named pPK9/10.

..NotI..
5'-ATCTGCAGCGGCCGCAAACATGAGAATTGGGTAATAACTG-3' PK9

PstI (SEQ ID
NO:185)

..SfiI..
5'-ATGGATCCGGCCATGGAGGCCTTCAAGAATTAGCTTTTCAATTCATC-3'

BamHI

PK10 (SEQ ID

NO: 186)

2) Preparation of the deletion cassette

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The 5'-region of ORF YML114c was amplified by PCR using genomic DNA of *S.cerevisiae* as template and both primers YML114c-Asp718 and YLM114c-EcoRI, described below.

YML114c-Asp718: 5'-GCTGGTACCCGTCGGTCTCTTTACC-3' (SEQ ID NO: 187)

YLM114c-EcoRI: 5'-TTGGAATTCATTGCCCTTTATGAGTCC-3' (SEQ ID NO: 188)

Please amend the paragraph on page 25, lines 1-9:

The 3' region of ORF YML114c was amplified by PCR using genomic DNA of *S.cerevisiae* as template and both primers YML114c-BamHI and YLM114c-SacI, described below.

YML114c-BamHI: 5'-ATCGGATCCGCCAACAATGACAGCG-3' (SEQ ID NO: 189)

735
YLM114c-SacI: 5'-GTTGAGCTCTGAGCGTTTGTCTTG-3' (SEQ ID NO: 190)

The PCR fragment was subsequently cut with BamHI and SacI. The resulting 535bp fragment was inserted in plasmid pYML114c-A linearized with BamHI and SacI generating pYML114c-B.

Please amend Table 2 on pages 31-41 as follows:

TABLE 2: Primers used for gene deletions

Gene deletions on chromosome 13	
Name	Sequence 5'-3'
YDR472w-S1	ATG TCT CAA AGA ATA ATT CAA CCA AGC GCA TCT GAC CAA CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 167)
YDR472w-S2	AGC CAA ATC TCA AAC CTT CCC TGT CAA GCA CTT GCC TGT CGC ATA GGC CAC TAG TGG ATG TG (SEQ ID NO: 177)
YDR499w-S1	ATG AGA CGA GAA ACG GTG GGT GAA TTT TCT TCA GAT GAC GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 95)
YDR499w-S2	CGT ACT TTA CTT GCA TTA TTC TCC CCG TTC TTT TAT TCA AGC ATA GGC CAC TAG TGG ATG TG (SEQ ID NO: 175)
YMR049c-S1	CAG ACT ATT GAT TAC TTT ATG ACC GGT TAG TTT CTT TAG TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 170)
YMR049c-S2	TCT GTT CTA ACA TAA CTA GGT CAA TGA TGG CTA AGA ACA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 128)
YMR134w-S1	GCA AAG TGT GGT ATA GAA AAA GAA CCA AAG GCC GGT ATG TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 139)
YMR134w-S2	TGT GTG TGT GCC TAC CTG CAT GTA TGC ATT TAG CAA TTG AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 150)
YML023c-S1	CAC GCA ATG GTG CAC ATT ATT TTG TTG AAC TCA CTG AGA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 159)
YML023c-S2	ATT AGT TAC TTA TTC TAT AAT TAC ACT TTT ATC ATG AAC GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 173)
YML049c-S1	AAT TCC TGC TCA TTC AAG GAA AGT CTC AGG AAA TTT TCA CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 106)
YML049c-S2	ACT CCT GCA TCG GAC ACT TCG TCG ATC TGG AAG CAG GGT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 19)
YML077w-S1	ATG GGG ATA TAT TCA TTT TGG ATC TTT GAT AGG CAT TGT ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 28)
YML077w-S2	TTC TAT TGG TGA TCT TTC TTG TCC CTT GAC CTC TCA TTT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 39)
YML093w-S1	GCT AAC TTA AAT ATG GCA AAA AAG AAA TCT AAG AGC AGA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 50)
YML093w-S2	CAA AGG ATC AAT AAC TTG GCC TGG CTT AGT CAT GAT TCT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 61)
YML114c-S1	AAC GTG TAA TTG AGG GAC TCA TAA AGG GCA ATG ACT TCC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 71)

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YML114c-S2	GAC TTG TAG TAG CAT CGA TAT TGG TTG TGT TAT GTG CTA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 81)
YML127w-S1	CCG CTA AAT GGT ACT CCA GTA AGC GAG GCA CCC GCC ACA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 84)
YML127w-S2	ATA ACC CCG ACG TGT TTT CCA TGT ATT CAG ACA ATG CTA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 85)

Gene deletions on chromosome 13	
Name	Sequence 5'-3'
YMR032w-S1	CTA CAG TTA TGA AGC TTG TTT TTG GGA CCC AAA CGA CAA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 86)
YMR032w-S2	CAG AAA ACT AGT AAA ATT GAT ATA CAT CGA GAT CAA AGA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 87)
YMR093w-S1	ATG TCG ACT GCT AGG CCT AGA ATA ATC ACT TCG AAG GCT CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 88)
YMR093w-S2	AAG CAC CAA TTC AGT AGC GGC TCT AAT GTA GAT TCA TCT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 89)
YMR131c-S1	CTT TAA CTT CCT TTT GCC AGT GAA CAA ACA ATA ATT GTG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 90)
YMR131c-S2	GGT CTA TCG AGG TCA ACG AGG AAC AAG ATA GAG TGG TCT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 91)
YMR185w-S1	ATC AAC ATA CAC GAT ATA TTG AAT ACA AGA CCG AAG CTC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 92)
YMR185w-S2	GTA ATG GGT TAT AAA CTA TCT AGT ACG GTT AAA AGC TTG TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 93)
YMR212c-S1	CCT CTT GAA CTT AAA GAA TGT AAA TCT TCA TTT GCG TCT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 94)
YMR212c-S2	CGG ATG ATG TTC ACA CCA AAA CAT CAG AAA CTG GTC AAT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 96)
YMR213w-S1	ATA CGT GAA AGG CGG TGT ATG GAC CAA TGT GGA GGA TCA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 97)
YMR213w-S2	GCT GTA ACT GTT CAA TAG ACT CCA CTT TTG ATT GGA TCG AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 98)
YMR218c-S1	GAC TCA AAT GCA TTA GAG TGA TCA ACT CTA CAA CTT TTA CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 99)
YMR218c-S2	GAA GGC ATT TGA CGG AAC TGT ACG AAC GGT TAA CAG GCT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 100)
YMR281w-S1	CTG AAG AAA AGT TAA ATG AAG ATG TTG AGG CGT ACA AAG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 101)
YMR281w-S2	AGT ACG TAT TGT GCA TGT GTA TTC ATA AGT GAA AGC TTG TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 102)
YMR288w-S1	GAA AAC CTG CAG AAA GAA GCT GCA CGT ATT GGT GAG AAC GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 103)
YMR288w-S2	CCA AAC CTT CTA AAA TAC GCA TAA TAG CAT GTG GTG AAG TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 104)
YMR290c-S1	TGA GTT TTA CGT CTT TTG GTA TTT GGC GTT TTT CCA CTG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 105)
YMR290c-S2	GAT AAG CTG AGC AAT ATT AAC AGG AGA AGT ATG GCT ACC CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 107)

YMR211w-S1	AGA GAG CAA ACC ATT TGA CTA CTC AAT TCT TCA ATA TAC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 108)
YMR211w-S2	ATT TCA ATC ATC TTA CTC CGT GAA TCA GGT TCG GAA TGA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 109)

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Gene deletions on chromosome 4	
Name	Sequence 5'-3'
YDR196c-S1	ATG CTT ATG ATC AAA TTG TGT TAT ACT TCA AGG ACA AAA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 110)
YDR196c-S2	TTT CAA TCT GTT CGT ATA AGT CAA CCA ATG TGC TGT TAT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 111)
YDR299w-S1	ATG GAA AAA TCA CTA GCG GAT CAA ATT TCC GAT ATC GCC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 112)
YDR299w-S2	CAA AGA TTT GGA TAT CAT CGT TTT TAA CAG CCT CTA ATT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 113)
YDR365c-S1	CTG GAG AGA ACC CAA AGA AGG AAG GTG TAG ATG CTA GGT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 114)
YDR365c-S2	TTA GTA TGC TTT TTA TTA ACA GAT TTC AAC TTG CTT TTC TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 115)
YDR396w-S1	CAG ATA CAC TAT TGT GGT GTA ATC TGG ACC TTG ACT GTC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 116)
YDR396w-S2	TAG AGA AAA CAC TGA ATG ATC TTA GCG ACC GTA CAA AAG AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 118)
YDR407c-S1	TTC TTA AGC ATT TCC CAA GCT ATG TTG GCC CAT CTA AGA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 119)
YDR407c-S2	AAT AAC AGA CAA GAT AAC GTT TTC AGA GTC GAA CTG GAT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 120)
YDR416w-S1	ACT TAC ATG GAA AAG ATA TAT CGA GTA TTG GAA AGA GGA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 121)
YDR416w-S2	TCA AAT ATC TAG TTC TAT TTC ATC TGG ATT AAT CGA ATA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 122)
YDR449c-S1	CAC ATC ACC GAT TTC TAA TAA TGT CGA AGA CAA GAT ACT ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 123)
YDR449c-S2	ATA ATT AAA TCT AGA ATT TTA TAC CTA GGA TCA TCT TCT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 124)
YDR141c-S1	TTC GTA ATC TTT GAA TTC TGC GAT TTC ATC TAC CAG CGC GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 125)
YDR141c-S2	CAC TAA AGC CCC TTA CAA TTG ACT CAA ATA ATA AAC AAC TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 126)
YDR324c-S1	AAG AAG CCT GAA AAT ACG AAA CAA ACC GGT GAA GAT GAC CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 127)
YDR324c-S2	AAA CACTAA CTT TGG TTG AAT AAA CGC CTT TTG TTT GGA GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 129)

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YDR325w-S1	GAC ATT AAT ACG AAA ATC TTT AAC TCA GTT GCT GAA GTA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 130)
YDR325w-S2	ACC TCG CTG AAA GAC TCT GAA TCC TTA TCT TCT TCA TCT AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 131)
YDR398w-S1	ATG GAT TCT CCT GTT CTA CAG TCC GCT TAT GAC CCA TCA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 132)
YDR398w-S2	AAC GTC ACT ATA TCC GGC TTC CTC CTC GCC GTC GCT CTG CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 133)

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cont

Gene deletions on chromosome 4	
Name	Sequence 5'-3'
YDR246w-S1	ATG GCC ATC GAA ACA ATA CTT GTA ATA AAC AAA TCA GGC GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 134)
YDR246w-S2	AAC AGG TTA GAT CTT ATA GGC ATT TCC ATT GAG TAA GAT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 135)
YDR236c-S1	CTA AAA TAT TGA ACT TGA CCC TGG CCC CAT AAA AAT CAT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 136)
YDR236c-S2	TTG AAG TGT TGA TGT TTACGT GGA CTA TTT ATG TTT CGT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 137)
YDR361c-S2	TTA CCA AGT GGA AAT TTC TGT TTC CAA TTC ATC GAT ACT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 138)
YDR361c-S1	GGT TCA AGC TAT CAA ATT AAA TGA TTT AAA AAA TAG GAA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 140)
YDR367w-S1	ATC TGC GTA CTT TAT ACA ATC GAT ACC ATT TCC ACT TGT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 141)
YDR367w-S2	GTT TTG TTC TAC GTC ATC CCT ATC AAC TAA ATA TTT GGG GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 142)
YDR339c-S1	TAT GGG TAA AGC TAA GAA AAC AAG AAA GTT TGG CCT CGT ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 143)
YDR339c-S2	TAA AAG ACA TCT GGC AAT TTT TCA ATG ACG TAT GCG TGA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 144)
YDR413c-S1	TTC TTT GGT TTA TTC TTC GTT CAT TTT TGG TCA AAT ATC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 145)
YDR413c-S2	ACA AAA GAA AGC ACA AGA GTT TAT TAA GGA GCA GGA AAG GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 146)
YDR429c-S1	TCT AGA TCT ATC ATT ACA TAC AAG ATT GAA GAC GGT GTC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 147)
YDR429c-S2	TTT CTT TGT TTC TAA CGA CAG AAA CTC TTG GAA TGG GTG CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 148)
YDR468c-S1	GTC ACA ATA CTG CTG GTG ATG ACG ATC AAG AGG AGG AAA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 149)
YDR468c-S2	CAA GAC GAC AAT AAG AAG TCC TAT ACA ACA ATC GTC GTA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 151)
YDR489w-S1	ACT ACC CAC AGA GAT GCA AAT ACA ATA GTG GGT TCG TCC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 152)
YDR489w-S2	AGT CGG GCT CAT CTA TCA TGT TTA CGC TAC CTT CTG TAT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 178)

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YDR527w-S1	ATG GAC TTA CTG GGC GAT ATA GTG GAG AAA GAT ACA TCT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 179)
YDR527w-S2	CCC CAC CGC CTT GTT TCC ATA ACC AAA GTG CAT CAA TAG CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 153)
YDR288w-S1	ATG AGT TCT ATA GAT AAT GAC AGC GAT GTG GAT TTA ACA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 154)
YDR288w-S2	GCC CAT GAT TTC TTG CAC CAA TTT TTC AAG AGA CTC TAG TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 155)

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cod

Gene deletions on chromosome 4	
Name	Sequence 5'-3'
YDR201w-S1	CCC ATG TCT GGA CTA TTC AGA GCA TCA TCG TCA TCC ATA CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 156)
YDR201w-S2	AAA AGG GTT TTC CGT TTA GTT CCC GAA TAT GAT GTT GAA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 157)
YDR434w-S1	ATG TCC AAT GCA AAT CTA AGA AAA TGG GTT GGT TTT TGC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 158)
YDR434w-S2	TAA AGG TAA ATA CAC AGC TAT CAT GTG CTC TTG TGG GAA GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 160)
YDR181c-S1	AGG ATA AAC CCA AAT GCT GGA CAT CTA AGG AAA TCT AAG TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 161)
YDR181c-S2	TAG TTG GGT TTG AAT CGT TAT CAC GGG AGA ACA TTG CTT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 162)
YDR531w-S1	ATG CCG CGA ATT ACT CAA GAG ATA TCT TAC AAT TGC GAT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 163)
YDR531w-S2	AAA TAA GCT ATT TGC CCA ATA TTG TTG GAG ATG GCG AAT AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 164)

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Cont

Gene deletions on chromosome 12	
Name	Sequence 5'-3'
YLR186w-S1	CTA GTC ACC AAG AAG AAA ACC CGT AAA ATC GTA GGT CAT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 165)
YLR186w-S2	ATA CAA AGA GGA TGC CAA GTA GAC TTA AAC ACT ATA AAA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 166)
YLR215c-S1	TTA CTT ATT GAT GTC CTC ACA AGA ATA TAC AAC TTT TAT ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 168)
YLR215c-S2	AGC TCT CGG ATT GCT TCA GGA TTT AAA CTA GCT TCT ACG AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 169)
YLR222c-S1	CTC TCA ACG GTA GTA AGC CAT ACT ACG TAC AAT ATG GAT CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 117)
YLR222c-S2	AAT ATG TAA CTT TGT TCA ACT AAG TTA TCA ACC CTT GTG AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 174)
YLR243w-S1	ATG TCT CGC GTT GGT GTC ATG GTA TTA GGA CCT GCA GGT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 1)
YLR243w-S2	GAT AAT ATG GTT TCT ATA CTG TCA GGA TTA TTA GAT TCC AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 171)
YLR272c-S1	TTT GGG TCT CGC ACT TTC TCA GTC TTC CAA CTA ATT TCT CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 2)
YLR272c-S2	GGT AAC TGA CTT CGT TAC TTT ATG AGA TGT CCG GCT TTA GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 172)
YLR275w-S1	CCG TTT TAT CAT GTC GTA TGT TTG ATC TTA ACC ATT TTT ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 3)
YLR275w-S2	CAA CGA TAA CTG AAT CAC CTC TTA AGA ATA GTT TAC TTA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 4)
YLR276c-S1	CTT CAA CGG GTC TAC TTT ACC ATT CTT TGG CTT ACT GAC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 5)
YLR276c-S2	AGC TAT GAG AAA AAG TCT GTG GAA GGC GCT TAT ATT GAC GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 6)
YLR317w-S1	CTG CCA TCT TCT GCC ACC ACT TTG TCC TTC TTT CTT GAT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 7)
YLR317w-S2	GAA GTA AAC TAA CTA GTA AAG TAG GCT AAT TCG AAA CGA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 176)
YLR359w-S1	GGC TAT TGC TGA GAA GGA ATT GGG CTT AAC TGT TGT TAC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 8)
YLR359w-S2	AAC TTG ACT TGT TCA TCG TTT AGG TAC TTT TGG AAA GGT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 9)
YLR373c-S1	ACA CAC AGG TAC AGA GTG CTG AAA GAG GAT TGG TGT TGC CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 10)

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YLR373c-S2	CAA ACA GAC TTT GTT CCT TTG TAT GTC CTA TGG AAG ATA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 11)
YLR424w-S1	GAC ATG ACA TAC ACT AAT GAT GCC TTG AAA ACT AGT AGC GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 12)
YLR424w-S2	ATA GGT ACT TTC TAG AGG TCA AGG GCC CAT AAA TAA ATT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 13)

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cont

Gene deletions on chromosom 12	
Name	Sequence 5'-3'
YLR437c-S1	ATT GTG CAA GTC TGT TAA AGT CTT CTC TTG GAT CCA TTA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 14)
YLR437c-S2	CAT CAC ACA CTA ATA CAG GAA CAA ACA AGA CTT AAT GGA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 15)
YLR440c-S1	TTG CCA AGA AAA TTG CAG TAA AAA TGT TGG AAG AGC AAC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 16)
YLR440c-S2	GCT CCA ATT CTA GTG TGC TCC ATT GCG ATG TAA CAA TTT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 17)

Gene deletions on chromosome 6	
Name	Sequence 5'-3'
YFL024c-S1	TGA TGA ATT TTT CTG GGT TAT AGA AGA GTT CTG TTT CGC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 18)
YFL024c-S2	ACA CCT TCA AAC GCT ATA GAG ATC AAT GAC GGT TCG CAT AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 20)
YFR003c-S1	TGT GGA AGA GGT TCC CGC AGT TTT GCA GCT TCG AGC AAC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 21)
YFR003c-S2	ATC TTC TTT GTC TAC GTT CGT TAA AGT CAA GAT CCT TCT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 22)
YFR027w-S1	AAT GAA AGC TAG GAA ATC GCA GAG AAA AGC GGG CAG TAA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 23)
YFR027w-S2	AAT TTG GTT GCG ATA CCC AAC TTC CTT GCT GTC CTG CAC AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 24)
YFR042w-S1	AGT TTG CAC CAA TGG CAA TAT GCC TGT GAT AAA GAT AAG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 25)
YFR042w-S2	CAT GGA AGT TAT TTG GTT GCT TAG ATT CCA CGG GTT CAA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 26)

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cont

Gene deletions on chromosome 9	
Name	Sequence 5'-3'
YIL109c-S1	TGT CTC ATC ACA AGA AAC GTG TTT ACC CAC AAG CTC AGC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 27)
YIL109c-S2	TCA TGA TTT GTA AGA ATT CTC TGT AAC TTT CGT TAT TCA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 29)
YIL091c-S1	AGT GAC AGT TCT GTG AGG GAA AAG AAT GAT AAT TTC CGT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 30)
YIL091c-S2	CAT TGT AAA ATT CAG GAT TGT TTG GAG GCT TAT AAA AAA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 31)
YIL083c-S1	ACC TCT ACC CGT GCT CAA CAG ACC TCA AAT TCA TAC GTC TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 32)
YIL083c-S2	CGA TGA CTT CTG GGA TTA TCA TCT CTT CAA TGA TAT GGT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 33)
YIL019w-S1	TTC AAA GAA AAG CTT TTG AAA GTC AGT TCG GAT CTT TAG ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 34)
YIL019w-S2	TAG CGA CGG GAT TTC TTT TTG CCA TTA AAT TTA CCA CTC CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 35)
YIL104c-S1	TCC CCT TAC TAT TTA AGA TTA AGA TTT CCT CAC GAA TTA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 36)
YIL104c-S2	CCT GAT ACC TGT AAT GAT TGC AAT CTT GAT GAG AGA GCT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 37)
YIR010w-S1	ATG AGT CTG GAA CCC ACA CAA ACG GTC TCC GGT ACG CCG CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 38)
YIR010w-S2	ACC TTA GCT CAT CGA CTT TTG TTT CTA ACT TTG TCT CAA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 40)
YIR015w-S1	GCG AAC CAG GAC CAT TTC CAT AGA TTA AAC TAC CTC TAC CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 41)
YIR015w-S2	ATT TCC AGT TTT TTT GGG GTC CAT AAC AAC CGA TGG CAT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 42)

Gene deletions on chromosom 16	
Name	Sequence 5'-3'
YPL233w-S1	ATG TCA CAA GGT CAG TCC AAA AAA CTG GAC GTA ACT GTT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 43)
YPL233w-S2	CAA TCC TCC TCC AGG AAG TCC ATT AAG CGC TTG ACC TTT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 44)
YPL146c-S1	TCC AAC TAA TCT AACCAA GAA ACC ATC TCA ATA CAA ACA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 45)
YPL146c-S2	TTT GAA GTC CTT ATG TGT CCA CTT TTC AGT GAT TTT CTG CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 46)
YPL126w-S1	ATG ACG CAA TCC CTA GGT ATC GAA CAG TAT AAA CTG TCA GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 47)
YPL126w-S2	TAT GTT AAT ACT TTC ATC ACA CGA TCA AAA AAT GTA TCC AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 48)
YPL093w-S1	CAA GAT TAC AAG AAT CAG AGCGTT CTA TAT GCG TAA AGT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 49)
YPL093w-S2	CGG AAA TCT GTC TTA CCG ACA CCA CGC TTA CCA CTG AAT AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 51)
YPL063w-S1	TTC AAG CAT CCA GAA GAC TTT TAA CAA GTT ATT CAA GTT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 52)
YPL063w-S2	GGA TTC AGC AAT CTT CTT CTT TTT CTT TTC CTC TTC AAA TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 53)
YPL024w-S1	ATG TCT TTT TCA TCT ATC TTA TCA CAG GAT ATC ACA GAT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 54)
YPL024w-S2	ACT TGT GAG TCC TTC AAT ATG AAA ACG CCC CTA TTG AAC AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 55)
YPL020c-S1	TCA GTT GAA GTA GAT AAG CAC CGG AAC ACA CTA CAG TAT CCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 56)
YPL020c-S2	TCG GTT AAA ATC AAA TGG GCA ATA AAT CTT CTC ATC CTA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 57)
YPL012w-S1	ATG GAT CAA GAC AAA GTT GCT TTT CTT TTA GAG CTG GAG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 58)
YPL012w-S2	ATT TGA ACT TTGGAC CTT TCT TAT TAT GTT TGC CAA TCT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 59)
YPL007c-S1	CCC GTT GTT TGC TCA CGG GAC ATA TCT TTA CAT GCG TTG TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 60)
YPL007c-S2	GGA CTT ATT GGT AGA TAG AAA GGA ATT TGA GGA TTG GAA GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 62)
YPR048w-S1	ATG TCA TCG AGC AAG AAA ATC GTC ATC CTC TAT GGA TCG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 63)
YPR048w-S2	AAT TAG TTA TTT CCT CAC CTA ATC TCC ATA AGT AGT CTT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 64)
YPR072w-S1	TGT CTC AAA GAA AGC TAC AAC AGG ATA TCG ATA AGC TTT TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 65)
YPR072w-S2	AGA TTT GCC CAT TCC TGG TGG TAA CTT TTC GAT TTC TTT AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 66)

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Gene deletions on chromosome 16	
Name	Sequence 5'-3'
YPR082c-S1	CTT CGA TTG CTG AAA GAG TAA GGA ACT TTG CAG TTA TTT ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 67)
YPR082c-S2	CAA TAA AGT TCA ACT TGT TGT TGT TCC CTG TAC CAA AAT CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 68)
YPR085c-S1	CTG TAC ATT CTT TCG AAA GAC TCC ATG CTG CGA ATT TTT GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 69)
YPR085c-S2	TCC CAC TTT ATA GTT ATG GGA TTT CGA GCT GGA TTC GGT AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 70)
YPR105c-S1	AGC TCG ATC ATC GAG GGC CAA TTG TCT AAA AAT CTA GCA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 72)
YPR105c-S2	CTG TGT TCT ATC AAT CTT CAT ATT TCT AGC TTT AAT TCT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 73)
YPR112c-S1	CAT TGT CAA GGG TTT GCC CGT CTA TCT AAC AGA TGA TAA TCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 74)
YPR112c-S2	GAA ACC TTC GTT TTC TTC ATC ATC CAC ATC CAG TTT CTT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 76)
YPR137w-S1	ATG TCA GAT GTT ACC CAA CAG AAA AAG AGG AAA AGA TCC ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 75)
YPR137w-S2	AAA AGC CTG TTT GGT CAA TGA CAG CTG AAT ATA TAC CAT TGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 180)
YPR143w-S1	ATG GGC TCC AAG CAC AGA GTA GAC ACT AAG GAT AAG AAA ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 77)
YPR143w-S2	TTC ATT GTC GCT TCC TGC GGC AGC TTT AAC TAA ATC CAA AGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 78)
YPR144c-S1	TTC CAG AAA ATG TTA CTC AAT TGG AAG AAG ATG AGA CAG ACA GCT GAA GCT TCG TAC GC (SEQ ID NO: 79)
YPR144c-S2	CCA TGC TAC CCC AGG CAA GTA GAC GTT ACC TTG GGA TGA CGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 80)
YPR169w-S1	TTT TAC ATC CTG AAC TGC CCA TTA TAA TAA CTG GCT TTG GCA GCT GAA GCT TCG TAC GC (SEQ ID NO: 82)
YPR169w-S2	CTT CTT GAT CCC ATG CTC ATA CAG GTC CTT TTT TTT GTT GGC ATA GGC CAC TAG TGG ATC TG (SEQ ID NO: 83)

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